



### Features of Lithium-ion Battery

- **Longer Cycle Life:** Offers up to 3 times longer cycle life and Two times longer float/calendar life than Ni-MH battery, helping to minimize replacement cost and reduce total cost of ownership.
- **Lighter Weight:** About 40% of the weight of a comparable Ni-MH battery. A 'drop in' replacement for Ni-MH batteries.
- **Higher Power:** Delivers twice power of Ni-MH battery, even high discharge rate, while maintaining high energy capacity.
- **Wider Temperature Range:** -20 C~60 C.
- **Superior Safety:** Lithium Polymer chemistry eliminates the risk of explosion or combustion due to high impact, overcharging or short circuit situation.
- **Compatible Better:** It can compatible with all the iRobot Roomba series.

### Specification

Electrical Characteristics	Nominal Voltage	14.4V
	Nominal Capacity	5200mAh
	Energy	74.88Wh
	Internal Resistance	≤150mΩ
	Cycle Life	>3000 cycles @0.2C 80%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.5C
	Efficiency of Discharge	96~99% @0.5C
Standard Charge	Charge Voltage	16.8±0.03V
	Charge Mode	0.2C to 16.8V, then 16.8V, charge current to 0.02C <sub>5</sub> A (CC/CV)
	Charge Current	0.2C <sub>5</sub> A
	Max. Charge Current	0.5C <sub>5</sub> A
	Charge Cut-off Voltage	16.8V
Standard Discharge	Continuous Current	0.5C <sub>5</sub> A
	Max. Discharge Current	1.0C <sub>5</sub> A
	Discharge Cut-off Voltage	12V
Environmental	Charge Temperature	0°C to 45°C @60±25% Relative Humidity
	Discharge Temperature	-20°C to 60°C @60±25% Relative Humidity
	Storage Temperature	0°C to 40°C @60±25% Relative Humidity
	Water Dust Resistance	18650 4S2P
Mechanical	Dimensions (mm.)	140*55*46.5mm
	Weight (g.)	Approx:435g

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